BATSANOV, S.S.; ABAULINA, L.I.

Interaction of mercury halides with chalcogens. Report No.2. Izv. Sib. otd. AN SSSR no.10:67-73 161. (MIRA 14:12) Izv. Sib. otd. AN SSSR no.10:67-73 61.

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN 1. Institute
SSSR, Novosibirsk.
(Mercury halides)

(Chalcogens)

ABAULINA, E. I.
USSR/Physics Crystallography

FD-1836

Card 1/1

Pub 146-21/25

Author

: Abaulina, E. I., and Zavaritskiy, N. V.

Title

: Problem of obtaining a metastable modification of thallium

Periodical: Zhur. eksp. i teor. fiz. 28, 250, February 1955

Abstract

: In order to clarify the role of the crystalline lattice in the phenomenon of superconductivity it is important to investigate the various crystalline mcdifications of one and the same substance at low temperatures. There are three metals (thallium, titanium, and zirconium) whose alpha-mcdification is superconducting, but their beta-modification at low temperatures has not been investigated. The authors attempted to obtain and study at low temperatures the metastable modification of thallium (99.98% pure); tempering was carried out by several methods. They found that one of the usual methods does not obtain thallium in its metastable modification and that thus the problem of the possibility of tempering pure thallium remains open. They thank A. I. Shal'nikov for his interest and N. V. Belov, laboratory assistant in the Institute of Crystallography, Academy of Sciences USSR, for roentgenergeness.

· Institution: Institute of Physical Problems, Academy of Sciences USSR

Submitted: September 27, 1954

ACAUWA, E.I. ABHULINA, E.I.

USSR/Physics - Photo counter

FD-1840

Card 1/1

Pub 146-25/25

Author

: Khaykin, M. S., and Abaulina, E. I.

Title

: Self-quenching light counter with regulated red boundary

Periodical: Zhur. eksp. i teor. fiz. 28, 254-256, February 1955

Abstract

: The counter of photoelectrons is a sensitive measurer of light flux. The authors devote the present work to an attempt to create a light counter with regulated spectral characteristic, such an instrument in certain problems of spectral analysis combining the roles of light receptor and spectral apparatus. The first attempt in this direction was made by V. M. Kudryatseva

(ibid. 4, 557, 1939). They thank Prof. A. I. Shal'nikov for his advice.

Institution: Institute of Physical Problems, Academy of Sciences USSR

Submitted: June 29, 1954

ABAULINA-ZAVARITSKAYA USSR/Electricity - Semiconductors

0-3

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 12184

Author

: Abaulina-Zavaritskaya, E.I.

Inst

: Moscow State University, USSR.

Title

: Electric Properties of Germanium at Super Low Temperatures

Orig Pub

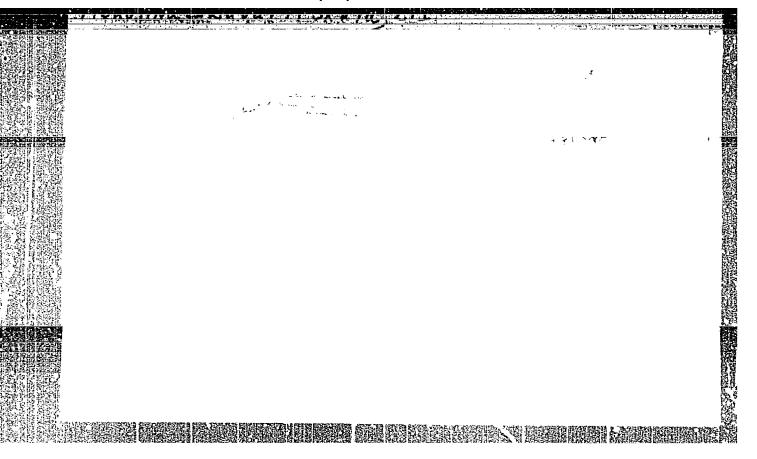
: Zh. eksperim. i teor. fiziki, 1956, 30, No 6, 1158-1160

Abstract

: An investigation is made of the electric resistivity (5) of single crystals of germanium (1 ohm-cm at 200) on the temperature and on the intensity of the electric field in the temperature range from 0.15 to 200 K. A very low temperature is obtained by adabatic demagnetization of iron-ammonia alums. The temperature of the spe-

cimens was monitored by a calibrated carbon thermometer with accuracy to 5 x 10-30 K. The resistance was measured with an electrometer with negative feedback and with a

Card 1/2



The Electric Conductivity of Germanium in Strong electric Fields at Low Temperatures

SOV/56-36-5-2/76

of from 1 - 6 v/cm at temperatures of from 4.5 - 6.35°K (7 curves). This dependence is found to have 3 characteristic ranges: a) the range of applicability of Ohm's law, b) the range of the monotonous increase of conductivity, and c) the range of the sudden steep increase of electric conductivity (the so-called "breakdown" region). The latter is subjected to close investigation. It was found that the breakdown effect is connected with the development of a cascade in the conduction band; it is, however, independent of the conduction mechanism in germanium at low temperatures. The other figures show the various physical connections in this region in form of diagrams; thus, figure 4 shows the curves Ebr(T), (Ebr denotes the breakdown field strength), figures 5 and 6 show the dependence of conductivity on E, etc. The formula $E_{br} \approx \frac{\mu}{\mu} \sqrt{\frac{2I}{kT}}$ or $E_{br} \approx const$ holds

(u denotes the velocity of sound, I the ionization energy of the impurities in germanium, and μ the mobility (Figure 9 shows the course taken by the straight line). The influence

Card 2/3

The Electric Conductivity of Germanium in Strong Liectric Fields at Low Temperatures

SOV/56-36-5-2/76

exercised by various factors upon E_{br} is found to be due to their influence on carrier mobility. Finally, the connection between E_{br} and the resistance β on the magnetic field strength is investigated. The following holds: $\beta(H)/\beta(0) \approx kE_{br}(H)/E_{br}(0)$, k = 1...4 or

 $\beta(H)/\beta(0) \approx \mu(0)/\mu(H)$. The author finally thanks A. I. Shal'nikov, B. M. Vul, S. G. Kalashnikov and L. V. Keldysh for their interest and discussions, and V. G. Alekseyeva for preparing the samples. There are 10 figures, 2 tables, and 10 references, 1 of which is Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State

University)

SUBMITTED:

November 10, 1958

Card 3/3

ABAYANTSEV, A.S.: Master Geolog-Mineralo Sci (diss) --- "The tectonics of the west-Donets graben (the Novomoskovsk-Mezhevaya region of the western Donbass)".

Dnepropetrovsk, 1958. 20 pp (Min Higher Educ Ukr SSR, Dnepropetrovsk Order of Labor Red Banner Mining Inst im Artem), 150 copies (KL, No 1, 1959, 116)

ARAYANTSEV, A.S.

Mineral raw material resources of the Dnepropetrovsk Province. Izv. DGI 42:20-25 *64. (MIRA 18:11)

LEVIN, G.L., kand.med.nauk; ABAYEV, A.I. (Moskva)

Use of the neuroblocking preparations gastripon and gastrobamate. Klin.med. no.7:53-56 161. (MIRA 14:8)

1. Iz 2-y kafedry terapii (zav. - prof. B.Ye. Votchal) TSentral'nogo instituta usovershenstvovaniya vrachey (dir. M.D. Kovrigina)
na base Klinicheskoy ordera Lenina bol'nitsy imeni S.P. Botkina
(glavnyy vrach - prof. A.N. Shabanov).

(PEPTIC ULCER) (AUTONOMIC DRUGS)

ABAYEV, A.S., inch.; PODOL'SKIY, L.R., inch. (Dnepropetrovsk).

Equipping electric locomotives on station tracks, Elek. i tepl. tiaga no.12:27-28 D 157. (MIEA 1I:1) (Electric locomotives--Maintenance and repair)

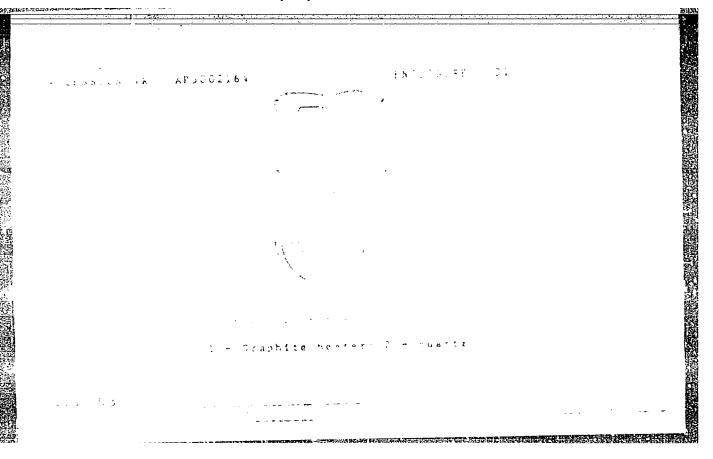
ABAYEV, A.S., inzh.

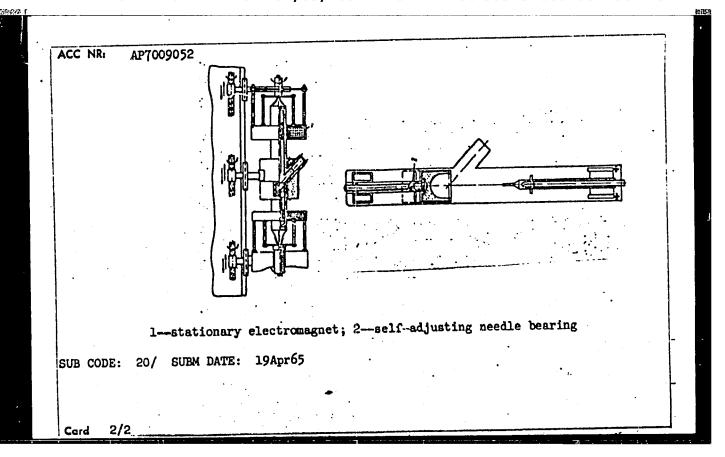
Determination of an expediency criterion in the change-over of traction motors to operation with decreased field excitation.

Shor. trud. DIIⁿ no.39:116-120 *63. (MIRA 18:4)

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AGADZHANYAN, N.A., mayor meditsinskoy sluzhby, kand.med.nauk; ABAYEY, D.V., podpolkovnik meditsinskoy sluzhby

Decompression disorders under conditions of decreased atmospheric pressure. Voen.-med. zhur. no. 1:58-62 Ja '60. (MIRA 14:2) (DECOMPRESSION SICKNESS) (ATMOSPHERIC PRESSURE---PHYSIOLOGICAL EFFECT) (AVIATION MEDICINE)

ABAYEU, G. N.			k ,	
HAKE I BOOK EXPLOITATION SOV/2925 PHAKE I BOOK EXPLOITATION SOV/2925 Bake, Azerbaydzianskiy nauchon-issisdovatel'skiy institut nefte- perertatyrsyuskcisey procyablemosti issni v. v. Expysheva. Sporitaty vyp. 2. (Gollection of Morks, No. 2) Bake, shortesisan, 1946, 313 p. Errate allp inserted. 500 Additional Sponsoring Agenty: Azerbaydzhan, Ministerstvo neftyanov procyablemosti. Ed. of Phi. Print Stuer: T.B. Alivan; Editorial Board: V.S. Alivan, procyablemosti. Ed. of Phi. Print. Sciences, V.S. Outyrys, Docor of Chemical Candister of Chemical Sciences, V.S. Outyrys, Docor of Technical Candister of Technical Sciences, Wish Stances, Misserstan, Sciences, Misserstan, Sciences, Wish Chandlake of Technical Candister of Technical Sciences, Wish Orderical Sciences, Misserstan, Condidate of Technical Candister of Technical Sciences, Misserstan, Condidate of Technical Candister of Technical Sciences, Misserstan, Condidate of Technical Candister of Technical Sciences, Misserstan, Condidate of Chemical Candister of Technical Sciences, Misserstan, Condidate of Chemical Candister of Technical Sciences, Misserstan, Condidate of Chemical Candister of Technical Sciences, Misserstan, Condidate of Technical Candister of Technical Sciences, Misserstan, Condidate of Chemical Candister of Technical Sciences, Misserstan, Condidate of Chemical	of Technical Selences, M.M. Wellkelbers of Technical Selences, M.M. Wellkelbers of Technical Selences, M.M. Mellkelbers of Selences. This collection of articles is intended for chemical engineers, recinitional and pefines concerned with advanced engineers, record from the conversion. The collection presents an analysis of different covered from dessering, dessering, and order perocred types of creation trees raises through peroclessisting of engages in described and the suitability of those eruses of ensalyte recorred from dessering, dessering and engages for the processes. The dessering a fluidised bed smilestic estalyte recorred from the suitability of those eruses of ensalyte recorred from the suitability of those of early to recorred from or siting are suitability of those end the chemical corposition of gasoline produce by describe tion springs as well warious circulation is any recorred from springs as well warious of similar artifity? Any octalized. Any octalized and from a recorpany individual artifity?	collection of Morks, No. ? Unitetion of Works, No. ? Yacroscitzing T. A. and N.I. Perrors. Mathodology of Analyzing Transcription Cit. Additives Fritzing Collection Cit. Additives Workscitzing Cit. Additives Workscitzing Cit. Additive Annihistor. Problems Workscitzing Cit. Additive Annihistor. Problems of Antihistor. Str. Mathodology 279 Fritzing Collective Annihistor. Las. Shrings. Collection Cit. Inc. Mathodology Las. Shring Workscit. Collection Co	Transaction of Distillates of All Algorithms With Sport Salfurite Aid from Albyzers, Oystens for Control by Taylor-118 Tearlory Takes of Air Abayers, Oystens for Control by Taylor-118 Card 7/8 Card 7/8	

ISMAYLOV, I.M.; ABAYEV, G.N.

Regulating "hyperflow" conveying systems. Shor.trud Asini MP
no.21318-324 Ag '58. (MIRA 22:6)

(Conveying machinery)

5.1180,10.2000 7793/4 50V/65-60-3-7/19

AUTHOR:

Abayev, G. N.

TITLE:

Concerning the Calculation of the Consumption of

Solids During Pneumatic Con.eying

PERIODICAL:

Khimiya i tekhnologiya topli. i masel, 1960, Nr 3,

pp 28-35 (USSR)

ABSTRACT:

A linear relation was established between loss of poten-

tial energy and consumption of solid material during

pneumatic conveying.

 $G = \frac{(\Lambda P - \Lambda F_{\theta})}{lk} Q,$

Where

 $K = \frac{W_{\mathcal{F}}}{W_{\mathcal{F}}} \left(1 + \frac{a}{g} \right) + \frac{2fW_{\mathcal{F}}W_{\mathcal{F}}}{D_{\mathcal{F}}g} \ .$

The following notations were used: G is the amount of circulating solid particles (kg/hr or kg/sec); P is

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Concerning the Calculation of the Consumption of Solids During Pneumatic Conveying

77934 \$07/65-60-3-7/19

pressure drop in conveyor (kg/m²); K is coefficient dimensionless); Q is consumption of transporting agent (m³/hr or m³/sec); W_g is linear velocity of gas in conveyor (m/sec); W_p is velocity of particles in conveyor (m/sec); 1 is distance between samplings of diffmanometric impulses (m); f is friction factor (dimensionless); a is acceleration of particle (m/sec²); D_t is diameter of transporting pipe-line (m); Qt is average concentration of solid particles in fluidized bed (kg/m³); W_f is velocity of particle fall (m/sec); \lambda list the amount of particles of a given fraction; F is the cross section of transport pipe-line (m³); \lambda list the apparent surface of solid particles; C_j is resistance coefficient; \lambda list gas dens (position)

Card 9/5

 Concerning the Calculation of the Consumption of Solids During Pneumatic Conveying

77934 807/65-60-3-7/19

working conditions (kg/m³): d is viscosity of the transporting gas (kg/see²/m²); K_e is coefficient K found experimentally; K_t is theoretical coefficient; g is acceleration of free fall ($g = 9.8 \text{ m/sec}^2$). Preservation without change of the following three determining factors is a necessary condition of similarity of the fluidized bed flow:

 $\frac{W_T}{W_{\Gamma}}$, $\frac{a}{g}$, $\frac{fW_f W_F}{D_{tg}}$.

It is inadmissible to apply the K data without considering the similar conditions. The range of the acceleration zone established experimentally for micropheres, sand and pellet catalysts in the range of transporting gas linear velocity of 7-20 m/sec never exceeds 2-5 m. The instant consumption of the solid particles can be found by experimental-analytical method from the value of the potential energy loss of the gas flow \triangle P.

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Concerning the Calculation of the Consumption of Solids During Pneumatic Conseying

(a) In the case

$$\frac{a}{g} \approx 0, \frac{fW_fW_f}{D_fg} \neq 0,$$

(i.e., the diffmanometric measurements of pressure are located above the acceleration zone).

$$G = \frac{\Delta P}{l} \frac{F}{\left(\frac{1}{W_P} + \frac{2fW_P}{D_L g}\right)} ,$$

$$K = \frac{W_F}{W_{P}} + \frac{2fW_FW_{P}}{D_{ES}};$$

(b) In the case $\frac{a}{g} \sim 0$, $\frac{fWelle}{Dig} \neq 0$, , as it usually takes place

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under industrial conditions, the suggested method ten is used for determining solid particles' consumption and fractional composition of the circulating solid particles.

Concerning the Calculation of the Consumption of Solids During Pneumatic Conveying

$$G = \frac{\Lambda P}{I} \left(W_{\mathfrak{g}}, -W_{\mathfrak{k}}^{meq} \right) F, \quad K := \frac{1}{1 - \frac{W_{\mathfrak{g}}}{W_{\mathfrak{g}}}}$$

For continuous control G and W the suggested method can be used for the designing of digital computers. In the case $\frac{n}{n} = 0, \frac{m_F n_F}{p_{F^S}}$, it is necessary to determine

limitless coefficient K from some other conditions (thermal balance, for example in order to find G from

ΔP. There are 2 tables; 3 figures; and 10 references 7 Soviet, 3 U.S. The U.S. references are: Daniels, Refiner, 435 (1946); Harin, Molatad, IEC, 41, Nr 6, 1148 (1949); Vogt, Wite, IEC, 40, Nr 9, 1738 (1948).

Card 5/5

ABAYEV, G.N.; GUSMAN, T.Ya.

Determination of the rate of the beginning of fluidization of some catalysts. Khim.prom. no.11:796-798 N 162. (MIRA 16:2) (Fluidization) (Catalysts)

DALIN, M.A., akademik; LOBKINA, V.V.; ABAYEV, G.N.; SEREBRYAKOV, B.R.; PLAKSUNOVA, S.L.

Production of acrylonitrile based on propylene and ammonia. Dokl.AN SSSR 145 no.5:1058-1060 '62. (MIR/ (MIRA 15:8)

1. AN Azerbaydzhanskoy SSR (for Dalin). (Anrylonitrile) (Propene) (Ammonia)

DALIN, M.A.; SEREBRYAKOV, B.R.; MANGASARYAN, N.A.; ABAYEV, G.N.; VALLERSHTEYN, A.S.

Synthesis of acrylonitrile by oxidative ammonolysis of propylene in a fluidized catalyst bed. Azerb.khim.zhur. no.4:28-33 '65. (MIRA 18:12)

1. VNIIolefin. Submitted August 16, 1964.

ABAYEV, G.N.

Basic criterial equations and criteria of chemical kinetics.

Zhur. prikl. khim. 38 no.10:2242:2252 0 165. (MIRA 18:12)

1. Submitted Febr. 27, 1964.

NAUMETS, Nikolay Ivanovich, ispolmyayushchiy obyazamnosti prof.
kand. tekhn. nauk; ZHIRKOVICH, Sergey Vladimirovich,
ispolmyayushchiy obyazamnosti prof. kand. tekhn. nauk;
ABAYEV, I.I., inzh.; PERCHENKO, A.G., st. pepod.;
SHABANOV, A.D., dots., kand. tekhn. nauk, retsenzent;
YUSTINSKIY, E.A., inzh., retsenzent; ANTONOV, V.P.,
tekhn. red.

[Hoisting machinery used in building] Gruzopod memnye stroitel nye mashiny. 2-ia chast posobiia po kursu stroitel nykh mashin. Kuibyshev, Kuibyshevskii inzhenorno-stroite. in-t, 1962. 416 p. (MIRA 17:2)

ABAYEV, M.I.; KORNFEL'D, M.I.

Measuring the internal friction in solids. Prib. i tekh. eksp. 9 no.2:150-152 Mr-Ap'64. (MIRA 17:5)

1. Institut poluprovodnikov AN SSSR.

ABAYEV, M.I.

Device for measuring the normal mode and damping constants of oscillatory systems. Prib. i tekh. eksp. 9 no.2:153155 Mr-Ap'64. (MIRA 17:5)

1. Institut poluprovodnikov AN SSSR.

8/0120/64/000/002/0150/0152

AUTHOR: Abayev, M. I.; Kornfel'd, M. I.

TITLE: Measuring internal friction in solid-state bodies

SOURCE: Pribory* i tekhnika eksperimenta, no. 2, 1964, 150-152

TOPIC TAGS: friction, solid body internal friction, internal friction measurement, internal friction electrostatic measurement

ABSTRACT: A new electrostatic method for measuring internal friction is free from two shortcomings of the techniques used heretofore: cementing the specimen to the vibrator and electric contact with the specimen. The 16x5x1-mm specimen rests on two 0.07-mm glass filaments whose ends are welded to a glass disk (see Enclosure 1). Four Pt electrodes are cathode-sprayed on the disk surface. Two inner electrodes are intended for generating cantilever vibrations in the specimen by an electrostatic field; two outer electrodes, for measuring the

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vibration amplitude by a variation of capacitance between these electrodes and the specimen. The device permits measuring the internal friction (from 10⁻⁶ and higher) in the kc range, within 100-600K, by attenuation of the specimen's free vibrations. "The authors wish to thank V. V. Sokolov who built the mechanical part of the device." Orig. art. has: 5 figures and 1 formula.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute of Semiconductors, AN SSSR)

SUBMITTED: 09Apr63

DATE ACQ: 11May64

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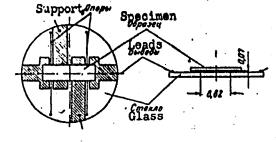
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OTHER: 004

Card 2/3

ENCLOSURE: 0 /



Device for measuring internal friction in solid-state materials

Card 3/3

8/0120/64/000/002/0153/0155

AUTHOR: Abayev, M. I.

TITLE: Instrument for measuring the natural frequency and attenuation ratio of oscillatory systems

SOURCE: Pribory* i tekhnika eksperimenta, no. 2, 1964, 153-155

TOPIC TAGS: natural frequency, frequency measurement, attenuation measurement, mechanical system frequency measurement, mechanical system attenuation measurement

ABSTRACT: A new digital electronic instrument is briefly described which is intended for precision measurement of the frequency and attenuation of quartz standards, tuning forks, and other mechanical systems. The measuring range is 10-30 kc with errors of $\pm 0.005\%$ and $\pm 3\%$, respectively. The frequency is determined by counting the number of cycles over a standard time interval. The

Card 1/2

attenuation is determined by the number of cycles corresponding to a decrease in the amplitude from one set value to another. Vibrations in the test specimen are set up electrostatically; a capacitive sensor is used to detect them. The instrument is used as part of an outfit for measuring internal friction in solid-state bodies. Orig. art. has: 2 figures and 2 formulas.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute of Semiconductors, AN SSSR)

SUBMITTED: 09Apr63

DATE ACQ: 11May64

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SUB CODE: EC

NO REF SOV: 001

OTHER: 002

Card 2/2

L 8850-66 EWT(1)/EWT(m)/EPF(n)-2/T/EWP(t)/EWP(b)/EWA(c)IJP(c) JD/GG ACC NR: AP5022728 SOURCE CODE: UR/0181/65/007/009/2809/2815 44,55 Abayev, H. I.; Kornfel'd, M. I. B ORG: Institute of Semiconductors AN SSSR, Leningrad (Institute poluprovodnikov AN SSSR) TITLE: Pore formation during decomposition of solid solutions of bivalent ions in SOURCE: Fizika tverdogo tela, v. 7, no. 9, 1965, 2809-2815 TOPIC TAGS: sodium chloride, light scattering, solid solution, crystal impurity, crystal structure, crystal defect 21,44,55 ABSTRACT: The process of pore formation during decomposition of solid solutions of Me^{2†} ions in NaCl is studied. Single crystal specimens with the following impurities were used: BaCl₂, SrCl₂, CaCl₂, CoCl₂, NiCl₂, HnCl₂, CdCl₂, ZnCl₂ and PbCl₂. A photomicrograph is given of a crystal with an admixture of BaCl2. "Rods" lying along the <110> axis are clearly visible, although some of them are at a slight angle to this axis. These "rods" reach a length of 10-15 µ with thicknesses up to 1 µ. Quenching from 700°C completely eliminates these "rods" which indicates that they appear during decomposition of the solid solution. It is assumed that these objects are pores. While there were no visible pores in the other crystals studied, light scat-

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ACC NR. AP5022728

tering experiments indicate that this is because their dimensions lie below the resolving power of the microscope. These light scattering experiments are described together with a brief explanation of the equipment used. The specimens were cylinders 10 mm in diameter and 15 mm long with polished ends. Scattering patterns are shown for some of the specimens with the light incident at various angles. Scattering patterns for the HaCl-SrCl2 specimen are given as a function of annealing time at 340°C. A curve is given for intensity of scattered light as a function of temperature in the specimen containing strontium chloride. It is shown that pores are responsible for the scattering patterns. Subsequent experiments showed that large pores are formed by protracted annealing near the temperature corresponding to maximum scattering. Analysis of the experimental data shows that crystals with admixtures of BaCl2, CaCl2, SrCl2, CoCl2 and NiCl2 form pores along axes <110>, while those with CdCl2 and MnCl₂ form pores along axes <100>. The pores formed by decomposition of solid solutions of lead and zinc ions are small and their shape is uncertain (the scattering pattern is a circle). Sharp spikes on the patterns indicate that the pores are considerably longer than a wavelength of light, however they must be considerably smaller in diameter than a wavelength of light since they are invisible under the optical microscope except for the case noted above. Orig. art. has: 10 figures, 1 table.

SUB CODE: 20/

SUBM DATE: 23Apr65/

ORIG REF: 001/

OTH REF: 004

BVK.

Card 2/2

ABAYEV, Novbat Abayevich; SHNEYER, M.S., red.; IVONT'YEVA, G.A., tekhn. red.

[Development of cotton growing in Soviet Turkmenistan] Razvitie khlopkovodstva sovetskogo Turkmenistana. Ashkhabad, Izd-vo AN Turkm. SSR, 1963. 167 p. (MIRA 16:11) (Turkmenistan—Cotton growing)

SHUMAKOV, V.F., inshener; PRASOV, H.M., inshener; ABAYEV, V.M., inshener petrudu; VOL'PITER, E.V., inshener-tepletekhnik; MALAFHOVSKIY, L.A.; MIKHEO, B.P.

Mechanizing slag removal from slag pockets in open-hearth furnaces.Metallurg no.9:14-19 S '56. (MIRA 9:10)

1.Starshiy inshener teknicheskoge otdela Hetallurgicheskege saveda imeni Voroshilova (for Halakhovskiy). 2.Starshiy kenstruktor proyektnege etdela Metallurgicheskege zaveda imeni Voreshilova (for Mikhne). (Metallurgical plants--Equipment and supplies)

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17426 307/17/5-60-1-11 %

AUTHOR:

Abayev, V. M. (Chief of the Bureau of Rate Setting of

Open-Hearth Shop Nr 2)

TITLE:

Potential Increase of Labor Productivity to Open-

Hearth Shop

PERIODICAL:

Metallurg, 1960, Nr 1, pp 23-24 (USSR)

ABSTRACT:

Since 1950, steel output at Magnitogorsk Metail ogical Combine (Magnitogorskly metalurgicheskiy kombinat) per Worker increased by 54%. The progress was achieved as a result of: (1) converting open-hearth furnate to magnesium chromide roofs; (2) change of furnace parameters; (3) increaseing charge and ladle size; (4) better work management at stockyard and pouring bay; (5) charging to mazut firing (petroleum residue used as fuel oil); (6) using high-alumina brick for checkers; (7) brereasing regenerator size; (8) mechanization of deoxidizer supply; (9) mechanization of closing tap hole: (10) pouring

Card 1/2

from large ladle with two stoppers; (11) ingrovement in

Potential Increase of Labor Productivity in Open-Herman Shop

774⁵² **30**7/130-66-1 - 1/11

charging machine; (12) using equipment for uniform distribution of steel in the ladles; (17) increasing ingot mold volume from 1.3 to 1.75 m2. By the suggestion of foreman I. N. Kutnyy and senior foreman N. F. Ogolikhin, a slag pocket sprayer was installed in the pouring bay eliminating four workers. Senior gas fitter A. I. Kurochkin and electrician A. F. Pisaner suggested that the service area for electricians and gas workers be extended, reducing the number of workers by eight. These improvements resulted in the increase of labor productivity and the decrease of working hours from 5 to 7 per day. Steel output increase at Magnitogorsk Macking for Combine is illustrated in the table below.

Steel output per worker

					A C
Ton 14011	1954 255.4	1955	<u>-1956</u> -295.5	<u>1957</u> 302.4	1958 302.7

ASSOCIATION:

Magnitogorsk Metallurgical Combine (Magnitogor odg metalurgicheskiy kombinat)

Card O.S.

3

ABAYEV, Yu.1.; BOGUCHARSKOV, V.T.

Conditions for the survival of young reaches (Pittlus rutilus heckeli) in the Beysug Itman and methods of improving the efficiency on the Beysug Figh Spawning and Rearing Farm.

Trudy AZNIIRKH no.6:119-125 63. (MIRA 17:8)

ABAYEV, Yu.I.; KRYLOVA, A.G.

Feeding habits of young roach (Rutilus rutilus heckeli) in the Beysug spawning ground and liman. Trudy AzNIIRKH no.6:127-131 163. (MIRA 17:8)

Abeyeve, d. T.

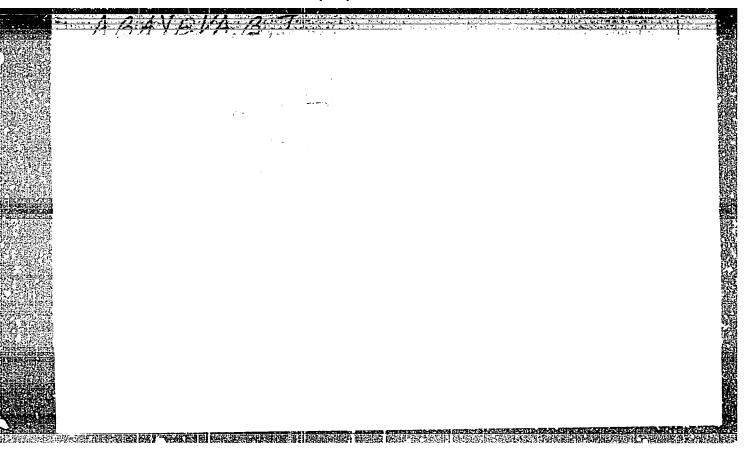
Saud Cham Sai

Dissertation: "Catalytic Cracking of n-Usuta, a and Mathyl Cyclohamac."

17 June 49

Central Sci Res Inst of Aviation Puels and Oils.

SO Vecheryaya Moskva Sum 71



Cracking of high molecular hydrocarbons from the Romashkinsk crude oil using a natural aluminosilicate catalyst. (Cont.)

are given in Tables 4 and 5. Structural characteristics of individual groups of hydrocarbons (in %) - components of asphalt free starting material and its cracking products are given in Table 6. The composition(in wt %) of both starting materials and their cracking products is given in Table 7. 7 tables and 12 references, 7 of which are Russian.

Card 2/2

The Cracking of Individual Groups of Hydrocarbons of Romashkinsk Goudron in the Pressence of Natural Aluminosilicate Catalysts.

with an activity index equal to 18.5 at a temperature of 450°C in a mixture with n-pentane (ratio 3:1). Table 2 gives the chemical composition of the deasphalted goudron and its fractions and Table 3 the chemical composition of the cracked petrol; tables 4 and 5 the properties of the fractions obtained after the cracking of individual components of the deasphalted goudron at 200 - 350°C and 350 - 450°C respectively. The properties of the cracking residue boiling above 450°C are shown in Table 6. The highest degree of decomposition under catalytic cracking conditions was observed in the heavy paraffin-naphthenic hydrocarbons which had a complex structure. The degree of adsorption of these paraffins on the surface of a catalyst is high, and they do not poison the catalyst which can be further used for the kerosene gas oil fractions. There is also a high degree of decomposition of the light aromatic hydrocarbons, but the surface of the catalyst is poisoned by the hydrocarbons used as starting material, and also by the kerosene gas oil fractions, which leads to a decreased formation of cracked petrol and of the gas. The light aromatic hydrocarbons undergo the highest degree of conversion. The main characteristic of the

Card 2/3

65-2-8/12

The Cracking of Individual Groups of Hydrocarbons of Romashkinsk Goudron in the Presence of Natural Aluminosilicate Catalysts.

decomposition of high-molecular compounds are the splitting off of the side chains, the rupture of the aliphatic chains, the rupture of the sulphur - and possibly other links, which is followed by a decomposition of the formed middle fractions. The dehydrogenation of the naphthenic ring is clearly shown, but is of no great importance. As a result of this reaction, middle and heavy aromatic hydrocarbons are formed which possibly partly undergo condensation reaction with a formation of ashphaltenes and coke. During the cracking of the paraffinic and light aromatic hydrocarbons the hydrogen atom is transferred. When highly aromatic or tar raw material is used the surface of the catalyst is blocked, and a very weak reaction is observed. Results of investigations show clearly that it is advantageous to use selective catalytic processes for the treatment of high molecular crude petroleum raw material. The processing of the residual fractions on natural catalysts should give high yields of kerosene gas oil fractions. There are 7 Tables and 1 Russian Reference.

Card 3/3

ASSOCIATION: VNII NP.

AVAILABLE: Library of Congress.

sov/81-59-15-54832

1. 1. 1.1.

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 15, p 423 (USSR)

AUTHORS:

Agafonov, A.V., Abayeva, B.T., Okinshevich, N.A.

TITLE:

The Catalytic Cracking of High-Molecular Petroleum Raw Material on Natural Catalysts as a Possible Source of Raw Material for the Production

of Oils

PERIODICAL:

Tr. Vses. n.-i. in-ta po pererabotke nefti i gaza i polucheniyu iskusstv.

zhidk. topliva, 1958, Nr 7, pp 181 - 202

ABSTRACT:

The results of research work on the problem of rational processing of the high-molecular part of petroleum to engine fuel and lubrication oils are laid down. Ample material on the analysis and the material balance of products of cracking of petroleum, mazut and asphalt petroleum on natural Al-Si catalysts is presented. The experiments were conducted at \$150°C, the volume rate of the raw material of 1.0 per hour, a frequency of the circulation of the catalyst 5:1. The fractions boiling at up to 200, 200 - 350, 350 - \$150°C and the residue were subjected to detailed.

analysis. It has been established that under these conditions the

Card 1/2

asphaltenes and resinous substances as well as medium and light aromatic

sov/81-59-15-54832

The Catalytic Cracking of High-Molecular Petroleum Raw Material on Natural Catalysts as a Possible Source of Raw Material for the Production of Oils

compounds, naphthene and paraffin compounds are transformed by 85 - 90%. The principal direction of the decomposition is the rupture of the side chains, the decomposition of the isoparaffin and paraffin hydrocarbons, the rupture of the naphthene rings and the dehydrogenation of bi- and polycyclic hydrocaromatic hydrocarbons. The fractions 350 - 450°C contain up to 35% naphthene, isoparaffin and light aromatic hydrocarbons suitable for the production of commercial oils. The process is strongly affected by the presence of low-boiling components in the initial raw material. In the cracking of petroleum the components boiling > 450°C are transformed in the most intensive manner; the fractions boiling < 350°C are little affected.

S. Rozenfel'd

Card 2/2

SOV/68-58-11-14/25

AUTHORS: Vorozhtsov N.N., Corresponding Member of the Academy of

Science of the USSR, Doctor of Chemical Science, Lisitsyn V.N., Candidate of Chemical Science, Agafonov A.V. and Krasivichev V.V., Candidates of Technical Science,

and Abayeva B.T., Candidate of Chemical Science

TITLE: Transformation of Higher Homologues of Phenol into Lower

Ones (Prevrashcheniye vysshikh gomologov fenola v

nizshiye)

PERIODICAL: Koks i Khimiya, 1958, Nr 11, pp 42-47 (USSR)

ABSTRACT: The results of an investigation on the dealkylation of technical xylenol with simultaneous alkylation of benzole in a pilot plant of the All-Union Scientific Research

Institute of the Petroleum Industry in which bead aluminosilicate was used are described. This was a continuation of the previously published work (Ref 1) on the transformation of xylenols (on interaction with

benzole) into phenols and cresols on cracking under mild conditions on an aluminosilicate catalyst. The experi-

mental plant used (Fig 1) is outlined. It was established Card 1/3

that, on passing xylonol in mixture with benzole

sov/68-58-11-14/25

Transformation of Higher Homologues of Phenol into Lower Ones

(1:3.65 by weight) over aluminosilicate catalyst at temperatures in the range 300-100°C and volume velocities of 0.42-1.47hr-1, up to 60% (on weight of starting xylenol) of phenolic compounds (phenol, o-, m- and p-cresols, xylenols) including 20-22% of phenolic-cresolic fraction, are obtained. Simultaneously 11-19% of benzene homologues with a boiling temperature of 100-185°C and 13-18% of neutral compounds with boiling temperatures above 185°C are formed. 8-25% of coke is deposited on the catalyst. The influence of the temperature of the reaction, the volume velocity of reactants (Table 1), additions of water vapour and various proportions of benzole (Table 2) on the transformation of xylenol and changes in the activity of the catalyst with time of operation (Table 3) were established. It was found that at temperatures 300-320°C and volume velocities 0.92-1.47hr-1 more phenolic-cresolic fraction and less of neutral compounds and coke on the catalyst is obtained (taking into consideration the transformation of xylenol). At 300°C and a volume velocity 0.92hr-1 330kg of

Card 2/3

30V/68-58-11-14/25

Transformation of Higher Homologues of Phenol into Lower Ones

phenolic-cresolic fraction and about 200kg of benzene homologues with a boiling temperature 100-185°C can be obtained from 1 ton of xylonol.

There are 3 tables, 3 figures and 6 references (4 Soviet,

1 English and 1 German)

ASSOCIATION: MKnTI im. D.I. Mendeleyeva, VNII NP

Card 3/3

Agafonov, A.V., Abayeva, B.T., Andreyeva, A.S., Eygenson, A.S., Kantor, I.I. and Ivchenko, Ye.G. AUTHORS:

Catalytic Cracking of Crude and Hydro-Purified Vacuum TITLE:

Gas-Oil from Arlan. Petroleum (Kataliticheskiy kreking iskhodnogo i gidroochishchennogo vakuumnogo gazoylya

arlanskoy nefti)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4,

pp 18-24 (USSR)

Vacuum gas-oil from Arlan. petroleum contains 3.2% ABSTRACT:

sulphur compounds, 0.11% nitrogen compounds and 24% tarry substances; these quantities are larger than the corresponding quantities in heavy gas-oil from Tatariya and Bashkiriya petroleums. These components

block the active surface of the catalyst during

cracking, prevent the access of hydro-carbon molecules and therefore decrease the degree of conversion of the

crude material. Considerable amounts of coke are deposited on the catalyst which inhibits secondary reactions and leads to decreased yields and inferior

quality end-products. Hydro-purification was carried

out on a continuous apparatus in the VNII NP by Card 1/5

Catalytic Cracking of Crude and Hydro-Purified Vacuum Gas-Oil from Arlan Petroleum

N.A. Chepurov and R.N. Yudinson; a stationary aluminiumcobalt-molybdenum catalyst was used at 380°C, a pressure of 50 atm and space velocity of the supplied crude material of 0.7 hour-1. The properties of the starting material and of the hydro-purified vacuum gas-oil are tabulated (table 1). The octane number of the end product was appreciably higher than when using fractional distillation (58.5 as compared to 41.0) and contained considerably less sulphur (0.013 as against 0.17%). The properties of the gas-oil fractions are listed in table 2. Cracking experiments of both the crude and hydro-purified vacuum gas-oil were carried out on a pilot plant with a synthetic bead catalyst at temperatures within the limits of 430 to 520°C, atmospheric pressure and a space velocity of 0.65 to 1.5, calculated on the volume of the catalyst per hour. The ratio of the catalyst to the crude material was constant in all experiments and equalled 5:1 (table 3). Optimum

Card 2/5

Catalytic Cracking of Crude and Hydro-Purified Vacuum Gas-Oil from Arlan Petroleum

yields of petrol were obtained at temperatures between 450 and 475°C when the optimum space velocity of the supplied raw material was within the limits of 1.0 to 0.65 hours-1. The hydro-purified vacuum gas-oil could more easily be processed; an optimum yield of light components at the same space velocities was achieved at 50°C. The authors concluded that the presence of a considerable quantity of light fractions boiling up to 350°C (37.6 as against 19.4%) influences the yield of the light components. The optimum yield at this temperature reached 66 to 67% by weight as against 58 to 59%. Results of the cracking experiments indicate (Fig 1) that the hydro-purification of the crude (by separating the tarry substances, metals, sulphur and nitrogen) improves the process conditions and also the yields and properties of the cracking products (compare table 4). The gasoline obtained by this process is less unsaturated, contains more aromatic compounds and has higher octane numbers (80 to 81.5 as compared to

Card 3/5

Catalytic Cracking of Crude and Hydro-Purified Vacuum Gas-Oil from Arlan Petroleum

77.7 to 80.7) (Fig 2). A lower content of unsaturated compounds renders the gasoline more stable. Its induction period exceeds 600 minutes. The light catalytic gas-oils, obtained during the cracking of hydro-purified crudes, show improved properties. Their cetane number is 34 to 38 (as against 30 to 33) and they contain 0.21 to 0.38% sulphur (as against 2.6 to 3.3%) (Fig 3). These light gas-oils can be used directly as components of diesel fuels. The heavy catalytic gas-oils (fractions boiling above 350°C) can be used for the production of lubricating oils or re-used as recycles. In both cases 2 to 3% of the tarry (tail) fractions have to be separated. The gaseous hydrocarbons produced by this process are of interest as starting materials for petro-chemical syntheses. The influence of the temperature on the ratio of unsaturated and saturated hydrocarbons in gaseous reaction products, and on the

Card 4/5

Catalytic Cracking of Crude and Hydro-Purified Vacuum Gas-Oil from Petroleum

content of unsaturated hydrocarbons in the gas, is shown in a graph (Fig 4). There are 4 figures, 4 tables and 2 English references.

Card 5/5

SOV/65-59-4-7/14

AUTHORS: Agafonov, A.V., Soskind, D.M. and Abayeva, B.T.

TITLE: The Operation and Methods of Reconstruction of Catalytic Cracking Plants Where Bead Catalysts are Used (Opyt

ekspluatatsii i puti rekonstruktsii ustanovok

kataliticheskogo krekinga s sharikovym katalizatorom) PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 4,

pp 34-44 (USSR)

ABSTRACT: Investigations were carried out in the VNII NP which

made it possible to work out conditions and make recommendations for the manufacture of high quality petrols. Heavy distillates, boiling at temperatures between 300 and 500°C, can be used. The process is carried out in one stage and, therefore, the efficiency of the plant increased by 30 to 35%. The properties of the gas-oil fractions of Romashkaya petroleum are given in table 1. It can be seen that the heavy crudes

differ from the kerosine-gas-oil fractions by their high boiling and solidification points, by their high content of tar, sulphur and aromatic compounds as well as by

appreciable content of polycyclic aromatic compounds, Card 1/3

The Operation and Methods of Reconstruction of Catalytic Cracking Plants Where Bead Catalysts are Used

asphaltenes and metal salts. Various investigations carried out in the Novoufinka . plant during 1954 to 1955, and modifications of the plant carried out at the time, are discussed in detail. The reconstructions, carried out at present, aim to increase the efficiency of the plant 1.5-fold (first modification) and 1.7-fold (second modification) without altering the principal layout of the plant. A further reconstruction is to achieve a considerable improvement in the conversion process which will increase the efficiency of the plant by 100% (third modification). The first modification is based on recommendations made by the authors, the Novoufinka factory Giproneftemash and Giproneftezavod. This type of reconstruction was carried out on one plant of the NUNPZ and three plants of the Salavatskiy factory. The various modifications are listed in a table on page 40 and the most important of these discussed in detail. Table 2 shows the improvements achieved during 1956 to 1957 and the first nine months of 1958 in various plants where the recommended

Card 2/3

SOV/65-59-4-7/14

The Operation and Methods of Reconstruction of Catalytic Cracking Plants Where Bead Catalysts are Used

reconstructions have been carried out. The second modification was recommended by GrozNII and Giproneftezavod and the third by VNII NP and Giproneftemash. The lay-out of the last plant is given in Fig 3 and the authors suggest that this last modification should only be incorporated in newly-erected plants. There are, however, various drawbacks e.g. the circulation time of the catalyst is rather low, the generator is not completely efficient, the cooling pipes of the regenerator are unsatisfactory and this leads to an increased catalyst consumption. There are 3 figures and 2 tables.

Card 3/3

ABAYEVA-B-T

p2

PHASE I BOOK EXPLOITATION

SOV/4659

Osnovy tekhnologii neftekhimicheskogo sinteza (Fundamentals of Synthesis Technology in Petroleum Chemistry) Moscow, Gostoptekhizdat, 1960. 852 p. 3,800 copies printed.

Eds.: Dintses, Arkadiy Il'ich, Professor, and Lev Aleksandrovich Potolovskiy, Professor; Executive Ed.: L.A. L'vova; Tech. Ed.: E.A. Mukhina.

PURPOSE: This book is intended for engineers and chemists of petroleum refineries and chemical plants, for councils of the national economy, planning organizations and scientific research institutes engaged in chemical processing and large-scale utilization of petroleum stock for the production of synthetic products.

COVERAGE: The book describes important commercial methods of producing hydrocarbon petroleum and gas stock and coal stock for the manufacture of alcohols, aldehydes ketones, acids, detergents, synthetic fibers, and synthetic rubber. Flow sheets are included, and the basic equipment of the petrochemical industry is described. The physicochemical properties and use of intermediate and end synthetic products are also described. The state of the petrochemical industry outside the USSR and prospects for its development are covered. No personalities are mentioned. References follow each chapter.

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Card<3/21				

AGAFONOV, A.V.; ABAYEVA, B.T.; OKINSHEYICH, N.A.

Distribution of sulfur in the cracking products of heavy charge stocks. Khim.sera-i azotorg.sced.sod.v neft.i nefteprod. 3:183-192 (MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovateliskiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo shidkogo topliva.

(Petroleum products) (Sulfur organic compounds)

S/065/63/000/001/004/005 E075/E436

AUTHORS:

Morozov, V.I., Agafonov, A.V., Abayeva, B.T.,

Ryabov, V.A., Karpenko, L.P., Gilyazetdinov, L.P.

TITLE:

The preparation of feedstock carbon black in thermal

cracking units

PERIODICAL: Khimiya i tekhnologiya topliv i masel, no.1, 1963,

39-42

A threefold increase in the production of carbon black is TEXT: scheduled in the current 7-year plan. New feedstocks suitable for conversion into carbon black are therefore required to supplement green and anthracene oils used at present. Catalytic gas oils and Iubricating oil extracts (phenol extracts) were subjected to thermal cracking to produce oils suitable for the production of carbon The cracked oils (43.5, 36.0 and 54.4% yields of the black. feedstock for light gas oil, heavy gas oil and phenol extract respectively) contained from 70 to 80% of aromatic hydrocarbons, of which at least 50% were heavy aromatics. The cost of these oils was about half that of green oil and a quarter of anthracene The yields of carbon black from the oils ranged from 47 to oil. Card 1/2

MOROZOV, V.1.; AGAFONOV, A.V.; ABAYEVA, B.T.; KARPENKO, L.F.

Results of the industrial adoption of the production of crude for carbon black in thermal cracking devices. Nefteper. i neftekhim. no.4218-21 *63 (MIRA 1727)

1. Omskiy neftepererabatyvayusbabiy zavod i Vsesoyuznyy nauch-no-issledovateliskiy institut po pererabatke nefti i gaza i poluoheniyu iskusstvennogo shidkogo toplivu.

GONSALES, A.A.; KURGANOV, V.M.; AGAFONOV, A.V.; ABAYEVA, B.T.;
POLETAYEV, V.B.; VIV'YER, A.S.; RUDOVICH, M.A.; BELYAYEVA, Z.G.;
RUTMAN, G.I.

Results of redesigning an industrial catalytic-cracking device. Nefteper. i neftekhim. no.9:6-10 '63. (MIRA 17:8)

1. Salavatskiy kombinat i Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti.

AGAFONOV, A.V.; ABAYEVA, B.T.; CKINZHEVICH, N.A.

Catalytic cracking products for petrochemical syntheses. Trudy VNII NP no. 9:27-51 '63. (MIRA 17:6)

ABAYEVA, B.T.; AGAFONOV, A.V.; GILYAZETDINOV, L.P.; GYUL'MISARYAN, T.G.; ZUYEV, V.P.; MOROZOV, V.I.

Testing thermocatalytic gas oil in the production of furnace black. Nefteper. i neftekhim. no.12:17-19 '63. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

s/065/63/000/001/004/005 E075/E436

The preparation of feedstock ...

56.7%, which compares well with the yields from green oils. The carbon blacks satisfy the POCT 7885-56 (GOST 7885-56) specification. There are 1 figure and 4 tables.

ASSOCIATION: Omskiy Neftepererabatyvayushchiy zavod VNII NP (Omsk Refinery VNII NP)

Card 2/2

AGAFONOV, A.V.; ABAYEVA, B.T.; OKINSHEVICH, N.A.; ANDREYEVA, A.S.; MOROZOV, V.I.

Developing extraction methods for obtaining carbon black stock from catalytically cracked gas oils. Khim. i tekh. topl. i masel 9 no.5:13-16 5 My 64 (MIRA 17:7)

1. Vsesoyuznyy nauchmo-iseledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

ABAYEVA, B.T.; OKINSHEVICH, N.A.; AGAFONOV, A.V.; SIDLYARENOK, F.S.; KAZANSKIY, V.L.; GYUL'MISAR'HAN, T.G.; SUYETENKO, L.P.; GILYAZETDINOV, L.P.

Using extracts as stock for the production of active and semiactive carbon black. Nefteper. i neftekhim. no.5:30-33 '64. (MIRL 17:8)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva, Kuybyshevskiy nauchno-issledovatel'skiy institut neftyeroy promyshlennosti i Nauchno-issledovatel'skiy institut slinnoy promyshlennosti.

AGARON V, L.V.; ABURAL, B.T.; OKIMENTER, L.Z. - LINEGYAN, F.M.; FINLIGH V, V.P.; TYSAROV, G.A.; MADERS WINTE, H.L.; MATERIA, J.A.; MITEVOKIY, I.C.

obtaining raw stock for the production of netive carbon black by extraction with the selective solvents of the gas oils of satalytic cracking. Khim. I tekh. topl. I masel 9 no.7:36-37 31 '64.

1. Vsesoyuznyy nauchno-issledovate Tekir institut no sererabotke nefti i gaza i polucheniya iskusstvennogo zhidkogo topliva.

EWT(m)/EWP(f)/EWP(t)/EWP(b) IJP(c) 12807-66 SOURCE CODE: UR/0318/65/000/011/0025/0028 ACC NR: AP5028680 AUTHOR: Gyul'misaryan, T. G.; Gilyazetdinov, L. P.; Aksenova, E. I.; Shmeleva, R. I.; Khokhlov, B. P.; Bystrov, K. M.; Sokolova, V. V.; Sinyakina, A. V.; Abayeva B. T.; Okinshevich, N. A. ORG: NIIShP; VNIINP: Novo-Yaroslavl Carbon Black Plant (Novo-Yaroslavskiy sazhevyy zavod); VolgogradnCarbon Black Plant (Volgogradskiy sazhevyy zavod); Scientific Research Technological Design Institute (Nauchno-issledovatel'skiy konstruktornotekhnologicheskiy institut) TITLE: Industrial tests of new types of petroleum stock in the production of activated PM-70 furnace black SOURCE: Neftepererabotka i neftekhimiya, no. 11, 1965, 25-28 TOPIC TAGS: activated carbon, petroleum product, gas oil fraction, phenol ABSTRACT: In order to confirm and develop the results of earlier studies which indicated that catalytic and thermal gas oil could be used in the production of activated furnace black, experimental batches of initial sulfur and hydrofined phenol extracts of catalytic and thermal gas oil were produced. The physicochemical characteristics of the new types of petroleum stock are compared with those of green oil; in the degree of aromatization they are identical, but in fractional composition, molecular weight, and viscosity, green oil is slightly lighter. Industrial tests confirmed that hydrofined phenol extracts of catalytic gas oil, the UDC: 66.095.21:547.21.001.5 Card 1/2

of activated PM- system being use	containing phenol ex and green oil (in t -70 furnace black in ad for trapping the 1	tract of catalytic gas oil, an he ratio of 60:40) can be used plants equipped with cyclone : black. Orig. art. has: 2 fig	in the production
UB CCOR: 07 /	SUBM DATE: none /	ORIG REF: 006,	
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SOV /137-58-12-25541

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 12, p 205 (USSR)

AUTHOR: Abayeva, M. M.

Functional Condition of the Liver Among Lead-shop Workers at the TITLE:

"Elektrotsink" Plant (Funktsional nove sostoyanive pecheni u rabochikh

svintsovogo tsekha zavoda "Elektrotsink")

[Tr.] Sev-Osetinsk., med. in-ta, 1958, Vol 7, Nr 1, pp 119-124 PERIODICAL:

ABSTRACT: As a result of the study of initial insidious stages of Pb attack on the

liver among 100 practically healthy workers with over 5 years of service, the following conclusions were drawn: 1) 60% of lead-shop workers with over 5 years' service, who are considered to be practically healthy, displayed some symptoms of chronic lead poisoning; 2) 77% of workers who are in contact with Pb for long periods of time exhibit symptoms of

chronic functional insufficiency of the liver; 3) Regular observation of the functional condition of the liver among lead-shop workers is neces-

sary.

Yu.S.

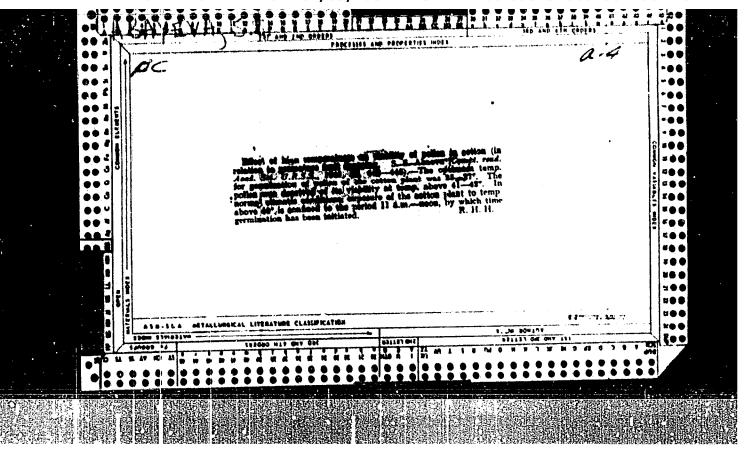
Card 1/1

BOTVINIK, M.M.; ABAYEVA, S.M.; KOKSHAROVA, L.M.; OLADKINA, V.A.

Synthesis of O-dipentidyl derivatives of acylserine and glycolic acid. Zhur. ob. khim. 30 no.12:3877-3883 D 160. (MIRA 13:12)

1. Moskovskiy gosudarstvennyy universitet.
(Serine) (Glycolic acid)

"APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000100110012-5



USSR/Cultivated Plants - Commercial. Oil-Bearing. Sugar-Bearing. M-5

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29879

the cotton wool output by 15-23%. Soaking the seeds for 12 hours in a 0.005% solution of ${\rm CuSO_4}$ boosted their germination. The highest cotton wool yield occurred with 12 hour seed soaking and the further spraying of the plants in a solution of ${\rm H_3BO_3}$.

Card 2/2

- 8 -

Country: USSR M

Category: Cultivated Plants. Commercial. Oil-Bearing.

Sugar-Bearing.

Abs Jour: RZhBiol., No 22, 1958, No 100367

period from the 3 of June to the 23 of July changed from 0.5 to 0.75 milligrams/kg, in the horizon of 30-40 centimeters from 0.05 to 0.4, in the horizon of 50-60 centimeters from 0.17 to 0.4 and in the horizon of 70-80 centimeters - from 0.17 to 1.5 milligrams/kg of the soil. It is pointed out that the content of mobile B in the soil is quite sufficient for the normal development of the cotton plant. Determinations of B content in the plants showed that in different periods of the selection of test specimens, the B content in the

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Country : USSR

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62%, in the upper - by 130%, in the buds and flowers - by 42%. -- B. P. Pleshkov

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